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# **WATER SUPPLY OUTLOOK FOR WYOMING**



**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**STATE ENGINEER of WYOMING**

AS OF  
**APR. 1, 1978**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.*

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



# **WATER SUPPLY OUTLOOK FOR WYOMING**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

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ADMINISTRATOR  
SOIL CONSERVATION SERVICE  
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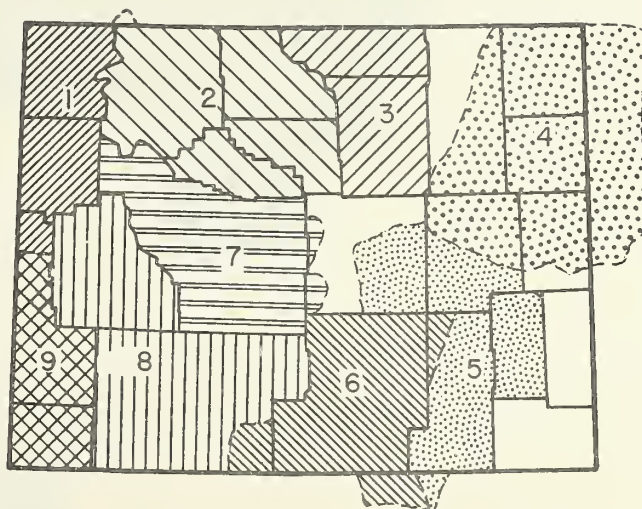
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Basic Data Supplement 2 - Precipitation data

Map and Index of Wyoming Snow Measuring Sites

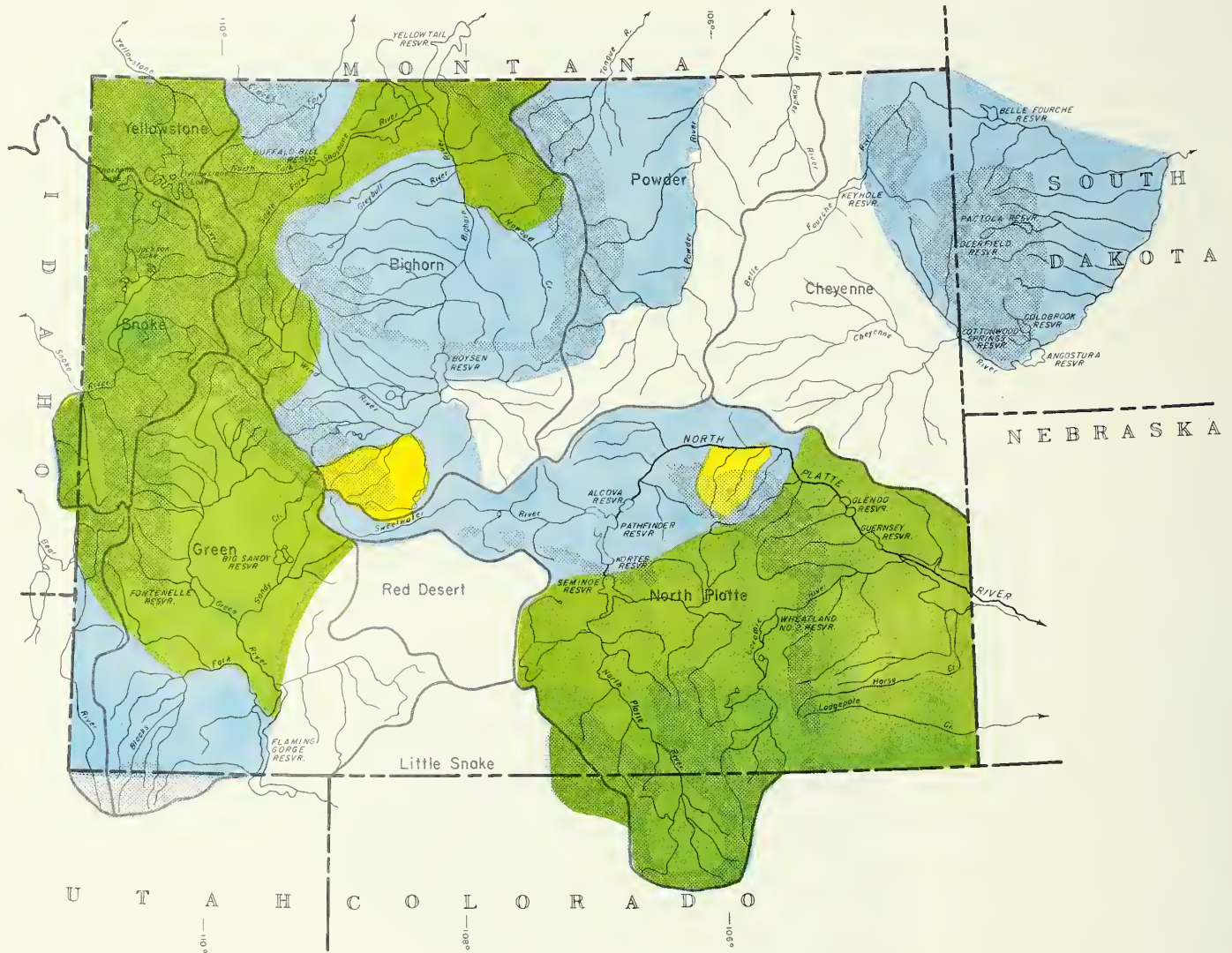


WATERSHED AREA LOCATIONS

# PROSPECTIVE WATER SUPPLIES FOR WYOMING SPRING AND SUMMER PERIOD

April 1, 1978

50 0 50 MILES  
SCALE 1 : 4,250,000



FORECAST STREAM FLOW  
in Percent of 1958-1972 Year Average

- Below 80%
- 80% - 120%
- Above 120%
- Not Forecast or Non-Irrigated
- Mountain Areas







Measuring water content on course in Snowy Range.

# WYOMING SUMMARY as of APRIL 1, 1978

\*\*\*\*\*  
\*  
\* *Excellent to average streamflows are forecast for this spring and* \*  
\* *summer. Snowpacks have been diminished by warm temperatures but* \*  
\* *still remain average to above average. The shortages of runoff* \*  
\* *experienced last summer are not expected this year.* \*  
\*  
\*\*\*\*\*

## SNOWPACK

March weather conditions included above normal temperatures and heavy snowfalls in some isolated areas. The result is generally diminished snowpacks (by 5 to 15 percent) from last month.

Northeastern Wyoming snowpacks are lowest at 29 percent of average. Bighorn Basin has near average conditions while the rest of the state has above average snow accumulations. Little Snake River drainage is highest at 143 percent of normal.

Continued on next page---

## PRECIPITATION

Lower elevation precipitation for March was generally less than 50 percent of normal except for the extreme southwestern area. One-third of the stations reported less than 0.25 inches of liquid precipitation. Seasonal totals (since October 1, 1977) remain at 30-40 percent above normal in western Wyoming to 25-50 percent below normal along the east slope of the Wind River Range and in southeastern Wyoming.

## STREAMFLOW

Average to excellent streamflow volumes are forecast. The northeast corner is an exception where flows will be much below normal. Deer Creek (25 percent below normal) and Little Popo Agie (17 percent below) are also low, while the Upper North Platte and Snake River Basin drainages are as high as 49 percent above normal.

## RESERVOIR STORAGE

Much above normal volumes are reported for all reservoirs in the Black Hills region. Other reservoirs across the state have near to above normal storage while the Snake River reservoirs still remain low. Jackson Lake is 37 percent below normal and Palisades Reservoir is 64 percent below the April 1 average.

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE  
11 APR 1978

APRIL 1, 1978



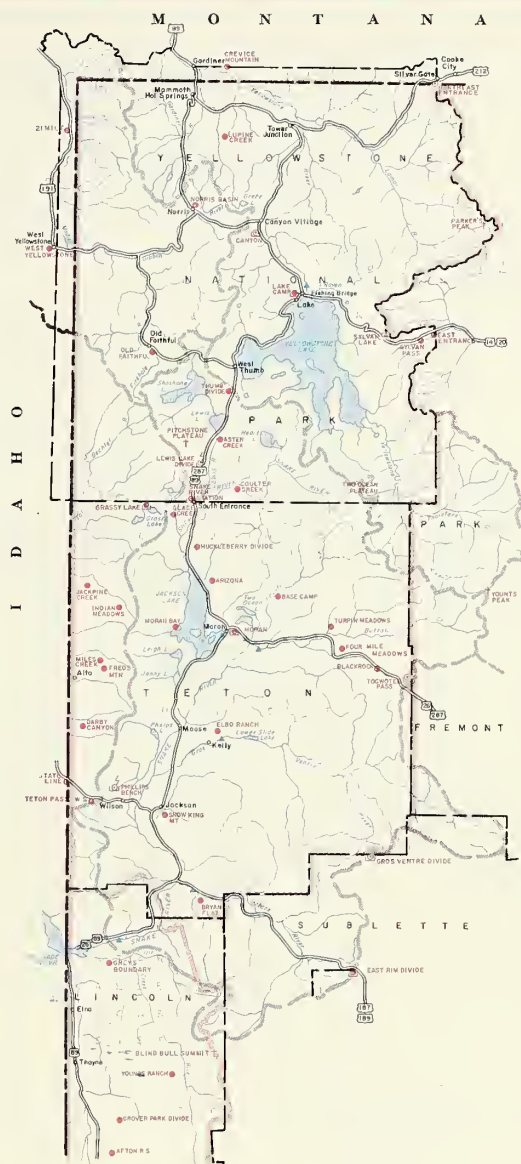
LOCATION MAP



## LEGEND

- SNOTEL
- Snow Course
- Snow Sensor
- Aerial Marker (A)
- Storage Precipitation Gage (P)
- Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary

0 10 20 MILES  
SCALE 1:4,815,000



## YOUR WATER SUPPLY

THE WATER SUPPLY OUTLOOK REMAINS EXCELLENT FOR THIS AREA. WARM TEMPERATURES DURING MARCH PRODUCED SOME EARLY SNOWMELT BUT LITTLE RUNOFF. PRECIPITATION HAS BEEN ABOVE AVERAGE AND MOST STREAMS ARE FORECAST AT 25-50% ABOVE NORMAL. RESERVOIR STORAGE REMAINS BELOW NORMAL.

# SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
Yellowstone River at Yellowstone Lake Outlet	900	110	Apr-Sept	387	821
SNAKE River near Moran (1)	1080	126	Apr-Sept	340	858
SNAKE River above Palisades near Alpine (1)	3350	128	Apr-Sept	1037	2621
SNAKE River at Heise (2)	4970	126	Apr-Sept	1494	3946
Pacific Creek at Moran	224	132	Apr-Sept	--	169
Greys River above Palisades	580	149	Apr-Sept	90	388
Salt River above Palisades near Etna	520	142	Apr-Sept	121	365
Palisades Reservoir Inflow (1)	4775	130	Apr-Sept	1031	3683
Swift Creek near Afton	- Not Forecast -		May-Sept	19.3	45

(1) Observed flow plus change in storage in Jackson Lake.

(2) Observed flow plus change in storage in Jackson Lake and Palisades Reservoir.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Madison (Wyo. only)	4	249	114
Yellowstone (Wyo. only)	8	232	109
SNAKE ab. Jackson Lake	10	307	121
Pacific Creek	2	321	128
Buffalo Creek	6	238	119
Gros Ventre River	3	243	113
Hoback River	5	324	121
Greys River	4	339	130
Salt River	5	250	133

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Grassy Lake	15.1	9.2	10.8	10.5
Jackson Lake	847.0	325.8	615.8	517.0
Palisades	1200.0	285.8	1165.8	794.4

† 1958-1972 period.

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
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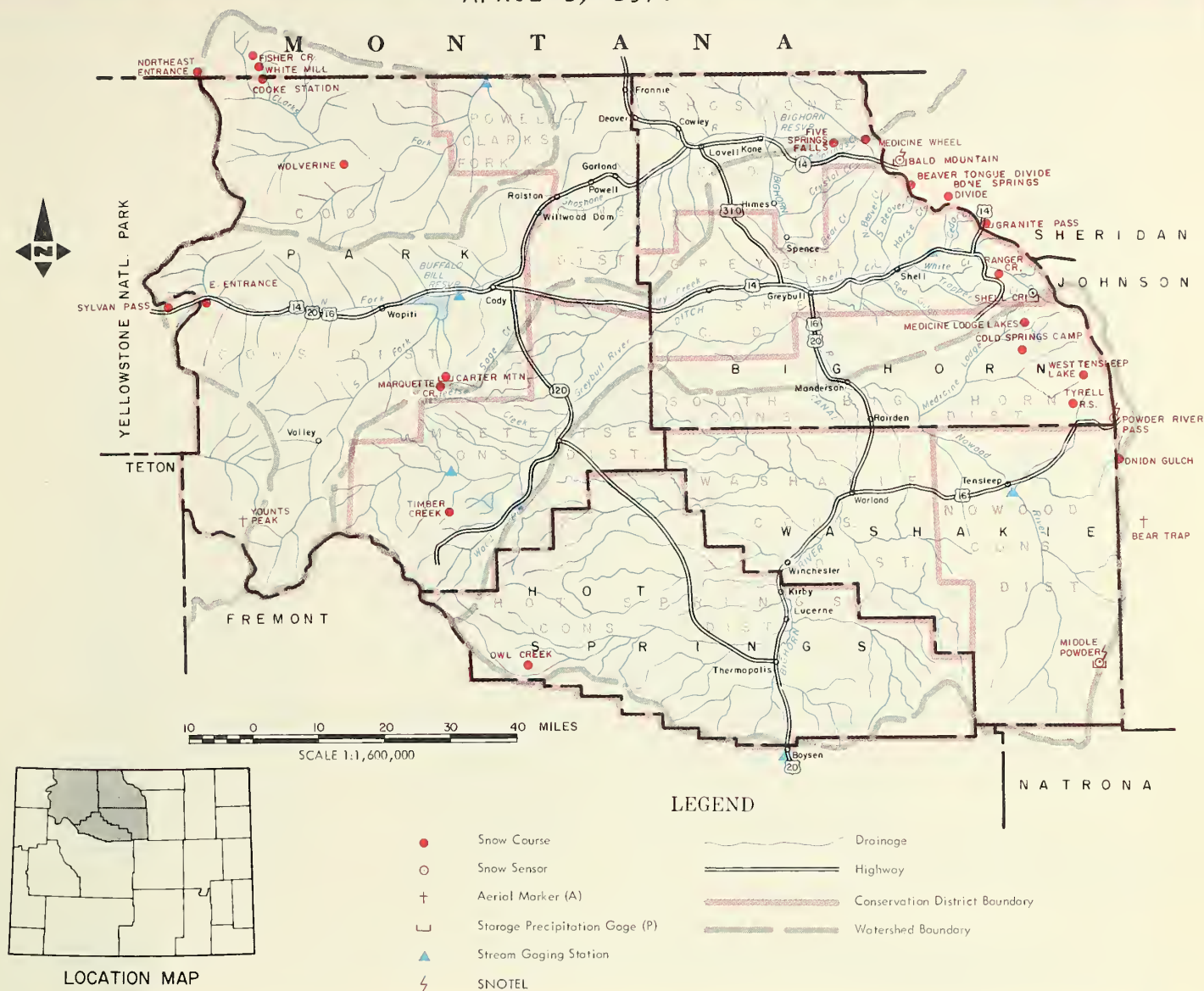
"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE BIGHORN BASIN IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
WATER RESOURCES DIVISION

APRIL 1, 1978



## YOUR WATER SUPPLY

ADEQUATE WATER SUPPLIES ARE FORECAST FOR THE SPRING AND SUMMER MONTHS IN THE BIGHORN BASIN. DUE TO THE WARM MARCH TEMPERATURES, MUCH OF THE PRECIPITATION FELL AS RAIN RATHER THAN SNOW. IN ADDITION, MUCH OF THE LOW ELEVATION SNOW HAS MELTED AND SNOWPACK PERCENTAGES ARE LOWER THAN LAST MONTH. STREAMFLOW VOLUMES ARE ALL FORECAST AT OR ABOVE NORMAL AND RESERVOIR STORAGE IS EXCELLENT.

# BIGHORN BASIN

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Wind River below Boysen (1)	1070	106	Apr-Sept	479	1006
Tensleep Creek near Tensleep	85	108	Apr-Sept	-	79
Medicine Lodge Creek near Hyattville	23	110	Apr-Sept	-	21
Shell Creek near Shell	82	112	Apr-Sept	55	73
Greybull River at Meeteetse	210	100	Apr-Sept	134	209
Shoshone River below Buffalo Bill Dam (2)	1000	121	Apr-Sept	381	827
Clarks Fork near Belfry	705	116	Apr-Sept	-	607

(1) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Buffalo Bill Reservoir and diversion to Heart Mountain Canal.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Clarks Fork	5	216	123
Shoshone	4	200	115
Nowood	5	109	81
Shell	4	123	113
Greybull	2	54	45

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST REC.	
		Snow Depth (in.)	Water Cont. (in.)	Water Content (inches) Last Yr.	Ave. †
Bald Mountain	3/29	73	25.8	28.4	24.0
Bear Trap Aerial	3/29	35	10.2	11.0	9.8
Bone Spring Divide	3/29	59	19.5	20.5	19.1
Carter Mountain	3/30	13	3.8	4.2	4.9
Cooke Station	3/31	65	27.6	12.4	20.5
East Entrance	4/01	27	11.4	4.8	8.9
Fisher Creek	3/31	99	43.7	22.8	38.5
Five Springs Falls	3/31	27	8.7	11.4	7.9
Marquette Creek	3/30	18	5.0	8.0	-
Medicine Lodge Lakes	3/29	48	14.1	7.2	12.4
Middle Powder	-	Delayed	-	19.0	12.6
Northeast Entrance	4/01	30	11.8	5.4	9.5
Onion Gulch	3/29	35	9.8	9.0	9.6
Owl Creek	4/01	5	1.4	4.3	6.2
Powder River Pass	3/29	44	12.7	10.2	13.9
Ranger Creek	3/29	40	12.0	5.8	10.2
Shell Creek	3/29	56	19.7	8.0	15.1
Sylvan Pass	4/01	37	15.2	6.7	13.4
Timber Creek	4/01	0	0.0	2.8	3.5
Tyrell R.S.	3/29	34	9.6	7.2	9.2
White Mill	3/31	83	34.2	15.8	27.7
Wolverine	3/29	42	16.8	5.8	12.9
Younts Peak Aerial	3/28	63	25.2	10.2	24.2

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Boysen	549.9	282.5	307.3	230.3
Buffalo Bill	373.1	151.4	175.2	135.0
Bighorn	1356.0	773.8	848.0	796.2
Upper Sunshine	53.0	N.R.	43.1	-
Lower Sunshine	58.9	N.R.	43.0	-

+ 1958-1972 period

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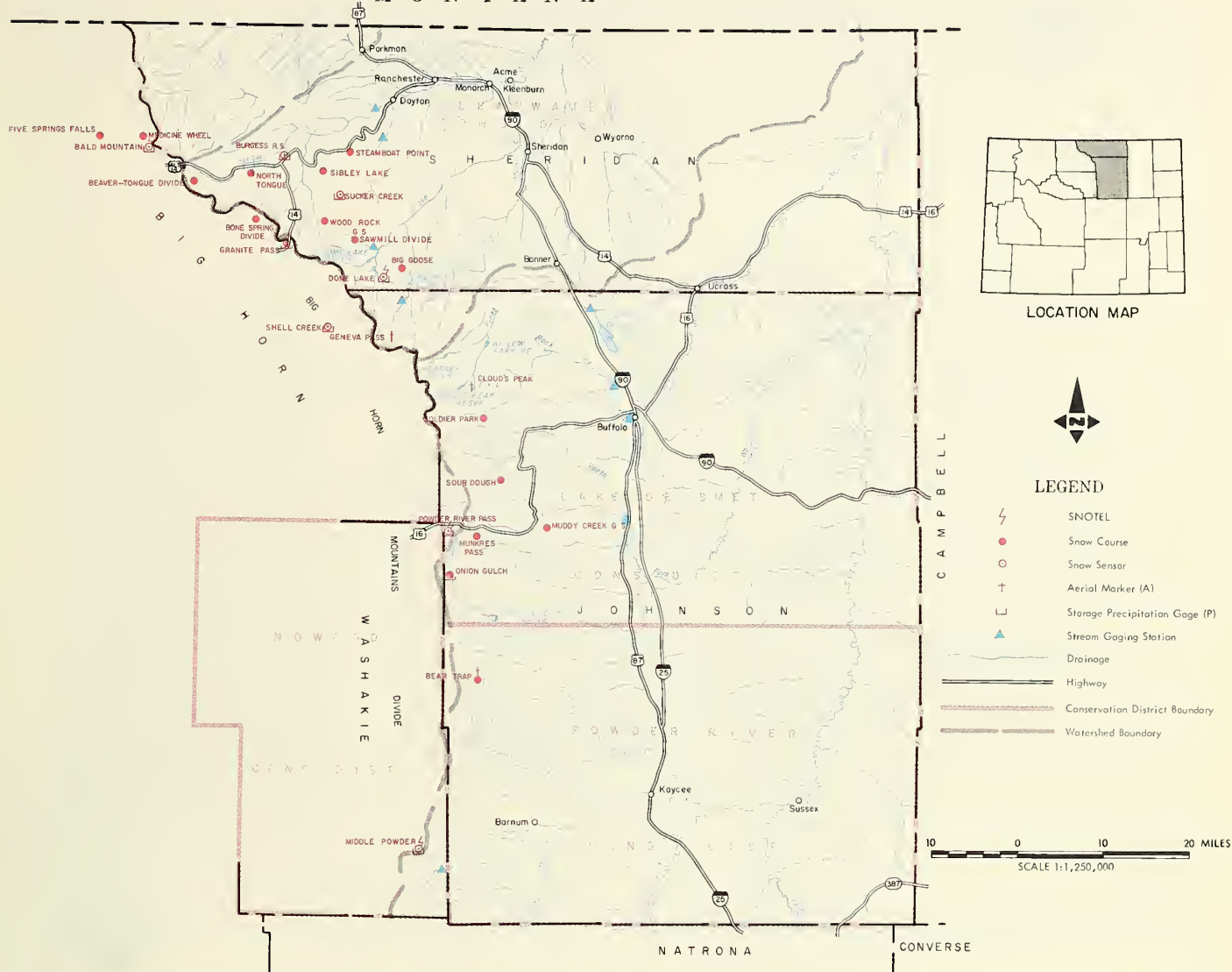
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"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE POWDER AND TONGUE WATERSHEDS IN WYOMING

APRIL 1, 1978

M O N T A N A



## YOUR WATER SUPPLY

NEAR AVERAGE SPRING AND SUMMER STREAMFLOWS ARE EXPECTED IN THE POWDER AND TONGUE RIVER WATERSHEDS. SNOWPACKS HAVE BEEN DIMINISHED SOMEWHAT BY EARLY WARM TEMPERATURES BUT STILL REMAIN NEAR NORMAL FOR APRIL 1.



# POWDER AND TONGUE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Tongue River near Dayton	120	106	Apr-Sept	107	113
Middle Fork Powder River near Barnum	- Not Forecast -		Apr-Sept	-	23*
North Fork Powder River near Hazelton	10.5	105	Apr-Sept	7.7	10
Clear Creek near Buffalo	- Not Forecast -		Apr-Sept	25.4	36
Rock Creek near Buffalo	- Not Forecast -		Apr-Sept	-	23
Piney Creek at Kearny	- Not Forecast -		Apr-Sept	-	49

\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.  
† Less than 15 years of record.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Tongue River	5	70	92
Goose Creek	4	109	101
Clear Creek	4	105	91
Crazy Woman Creek	3	110	95
Powder River	3	108	98

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR			PAST REC	
		Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	Last Yr	Ave †
Bald Mountain	3/29	73	25.8	28.4	24.0	
Beartrap Aerial	3/29	35	10.2	11.0	9.8	
Big Coose	3/29	25	5.7	12.0	8.3	
Bone Spring Divide	3/29	59	19.5	20.5	19.1	
Burgess Ranger Station	3/29	28	7.7	14.9	8.4	
Cloud Peak Aerial	3/29	36	10.4	13.2	13.0	
Dome Lake	3/29	32	8.8	13.6	10.6	
Five Springs Falls	3/31	27	8.7	11.4	7.9	
Geneva Pass Aerial	3/29	50	17.5	14.0	17.3	
Middle Powder	- Delayed -	-	-	19.0	12.6	
Muddy Creek C.S.	3/29	18	3.6	4.6	4.1	
North Tongue	3/29	40	12.2	17.8	14.2	
Onion Gulch	3/29	35	9.8	9.0	9.6	
Powder River Pass	3/29	44	12.7	10.2	13.9	
Sawmill Divide	3/29	43	12.7	-	-	
Shell Creek	3/29	56	19.7	8.0	15.1	
Soldier Park	3/29	28	7.1	5.7	6.5	
Sour Dough	3/29	27	6.7	5.9	7.2	
Steamboat Point	3/29	27	7.7	13.4	8.7	
Sucker Creek	3/29	37	11.5	18.0	14.0	
Wood Rock C.S.	3/29	36	10.2	13.6	11.2	

e - Estimated

A - Aerial stadia marker. Water content estimated. + 1958-1972 period

## RESERVOIR STORAGE (Thousand Ac. Ft.)

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
- No Reservoir Data -				

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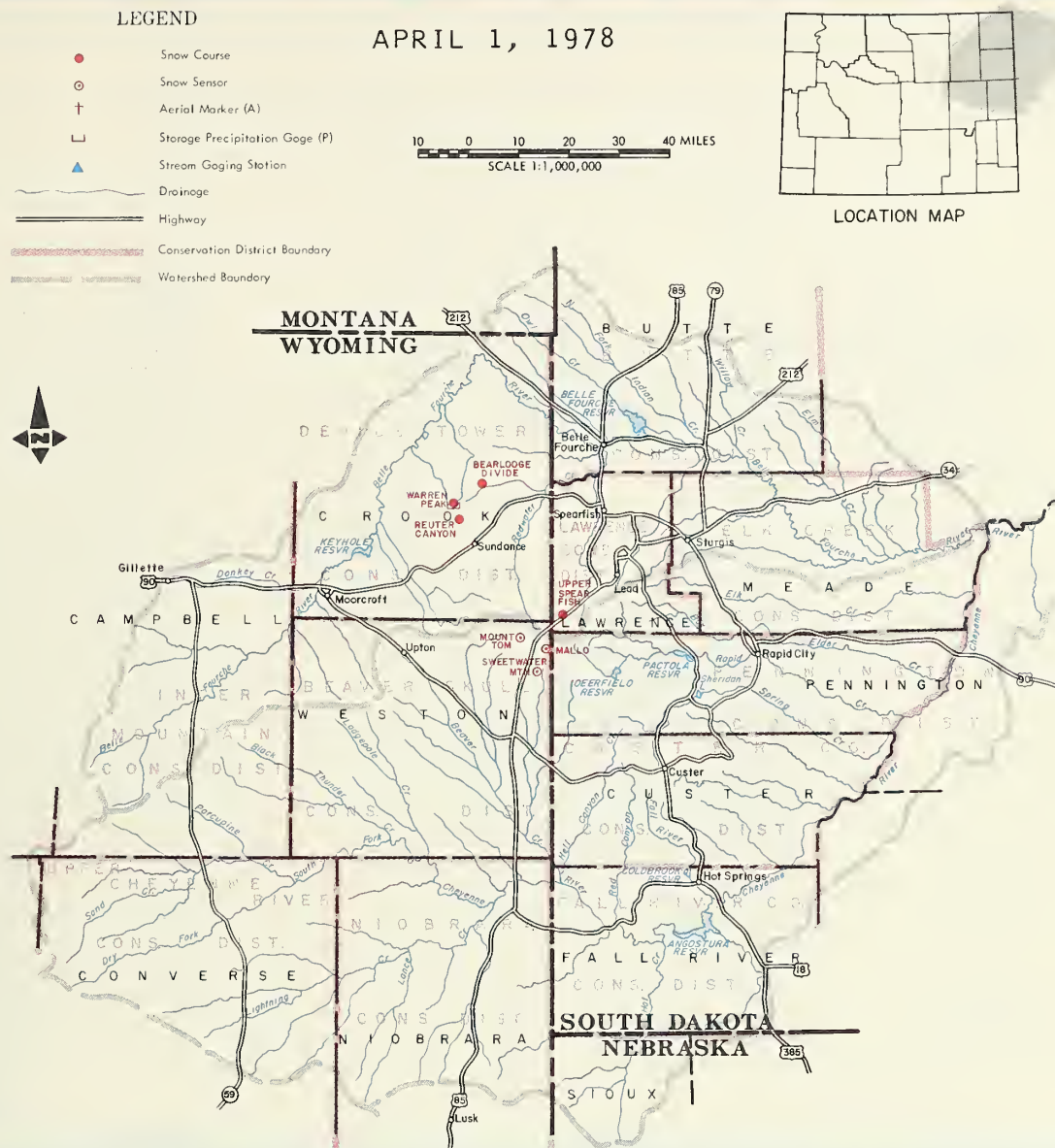


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"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS IN WYOMING AND SOUTH DAKOTA



## YOUR WATER SUPPLY

VERY WARM TEMPERATURES HAVE REDUCED THE BLACK HILLS SNOWPACKS TO LESS THAN ONE-HALF THE APRIL 1 AVERAGES. STREAMFLOWS ARE EXPECTED TO BE BELOW NORMAL THIS SPRING AND SUMMER UNLESS WE RECEIVE ABNORMALLY HIGH SPRING SNOWS AND RAINS IN THIS AREA. RESERVOIR STORAGE IS EXCELLENT WITH ALL RESERVOIRS STORING MUCH ABOVE AVERAGE VOLUMES.

# BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			,PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
BASIN, STREAM and/or FORECAST POINT					
- No forecasts for this area -					

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Belle Fourche	4	17	29

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR			PAST REC.	
		Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	Last Yr.	Ave. †
Bearlodge Divide	3/30	0	0.0	7.2	3.2	
Mallo Pillow	3/30	15	5.8	13.5	-	
Mount Tom Pillow	- No Report	-	-	-	-	
Reuter Canyon	3/30	21	3.2	17.2	9.8	
Sweetwater Mountain Pillow	- No Report	-	-	11.2	-	
Upper Spearfish	3/30	15	3.2	14.4	7.3	
Warren Peak	3/30	20	2.9	15.2	11.6	

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Keyhole	190.4	142.6	126.3	80.1
Belle Fourche	185.2	159.6	86.3	117.1
Angostura	86.2	77.5	45.3	62.6
Deerfield	15.1	15.2	15.1	11.5
Pactola	55.0	50.5	53.5	39.2
Shadehill	81.5	138.0*	63.9	63.1

\*Estimated figure; reservoir is approximately 57,000 acre-feet into the flood pool.

† 1958-1972 period

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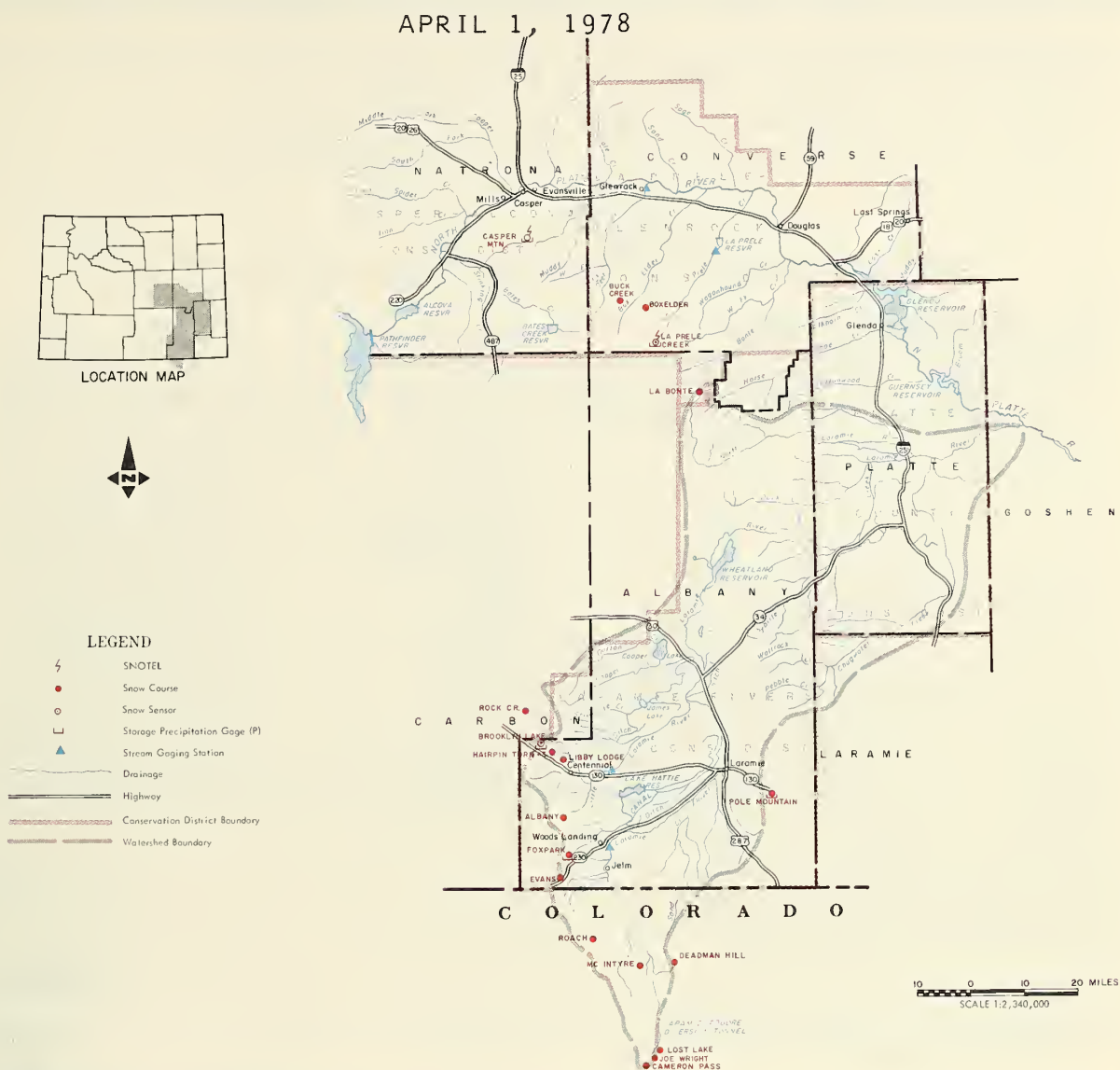
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"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER NORTH PLATTE RIVER WATERSHED IN WYOMING



## YOUR WATER SUPPLY

NEAR AVERAGE TO 39% ABOVE AVERAGE FLOWS ARE FORECAST FOR THIS SPRING AND SUMMER. THE LARAMIE RIVER FORECAST HAS DECREASED SLIGHTLY BUT STILL REMAINS WELL ABOVE NORMAL. SNOWPACKS HAVE GENERALLY DECREASED DUE TO WARM TEMPERATURES. RESERVOIR STORAGE IS ABOVE NORMAL AT PATHFINDER AND GLENDO RESERVOIRS WHILE OTHERS ARE BELOW THE AVERAGE APRIL 1 VOLUMES.



# LOWER NORTH PLATTE RIVER WATERSHED

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
North Platte River near Sinclair	850	131	Apr-Sept	257	648
Deer Creek at Glenrock	19.5	75	Mar-July	30	26
LaPrele Creek near Douglas (Ab. Reservoir)	19.0	106	Mar-July	13.2	18
Laramie River & Pioneer Canal near Woods (1)	150	118	Apr-Sept	67	127
Little Laramie River near Filmore	86	139	Apr-Sept	32	62

(1) Observed flow plus transbasin diversions from North Platte River Basin to Cache La Poudre River Basin in Colorado.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Laramie River	8	229	124
Little Laramie	5	281	144
Lower North Platte	3	92	91

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC	
	Date of Survey	Snow Depth (in.)	Water Cont (in.)	Water Content (inches) Last Yr.	Ave †
Albany	3/27	52	20.0	7.4	14.9
Boxelder	3/31	23	7.1	7.7	8.0
Brooklyn Lake	3/27	78	32.0	10.8	23.0
Buck Creek	3/31	25	7.6	11.8	-
Cameron Pass	3/30	78	32.0	17.6	28.7
Casper Mountain	3/31	35	10.7	14.5	15.0
Deadman Hill	3/29	60	21.2	7.2	-
Evans	3/30	40	15.8	6.5	11.9
Foxpark	3/27	40	14.1	4.1	7.1
Hairpin Turn	3/29	61	24.8	8.1	17.7
Joe Wright	3/30	75	29.2	16.8	25.3
LaBonte	3/25	25	7.7	5.5	5.0
Libby Lodge	3/29	43	16.3	7.7	11.6
Lost Lake	3/31	40	14.8	3.8	11.8
McIntyre	3/28	36	12.6	5.6	10.8
Pole Mountain	3/29	21	6.0	4.0	5.9
Roach	3/28	64	21.5	10.5	18.2
Rock Creek	3/27	90	36.4	22.4	28.4

+ 1958-1972 period

## RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1010.5	249.2	488.1	293.1
Pathfinder	1015.9	493.5	735.8	416.9
Alcova	30.7	2.7	2.8	11.5
Glendo	783.7	450.3	432.9	400.6*
Guernsey	45.2	16.0	8.6	25.4
Wheatland #2	98.9	28.0	36.3	45.9
PROJECT WATER OWNERSHIP				
North Platte Project	1016.1	297.8		
Kendrick Project	1201.6	795.3		
Glendo Project Users	454.3	141.1		

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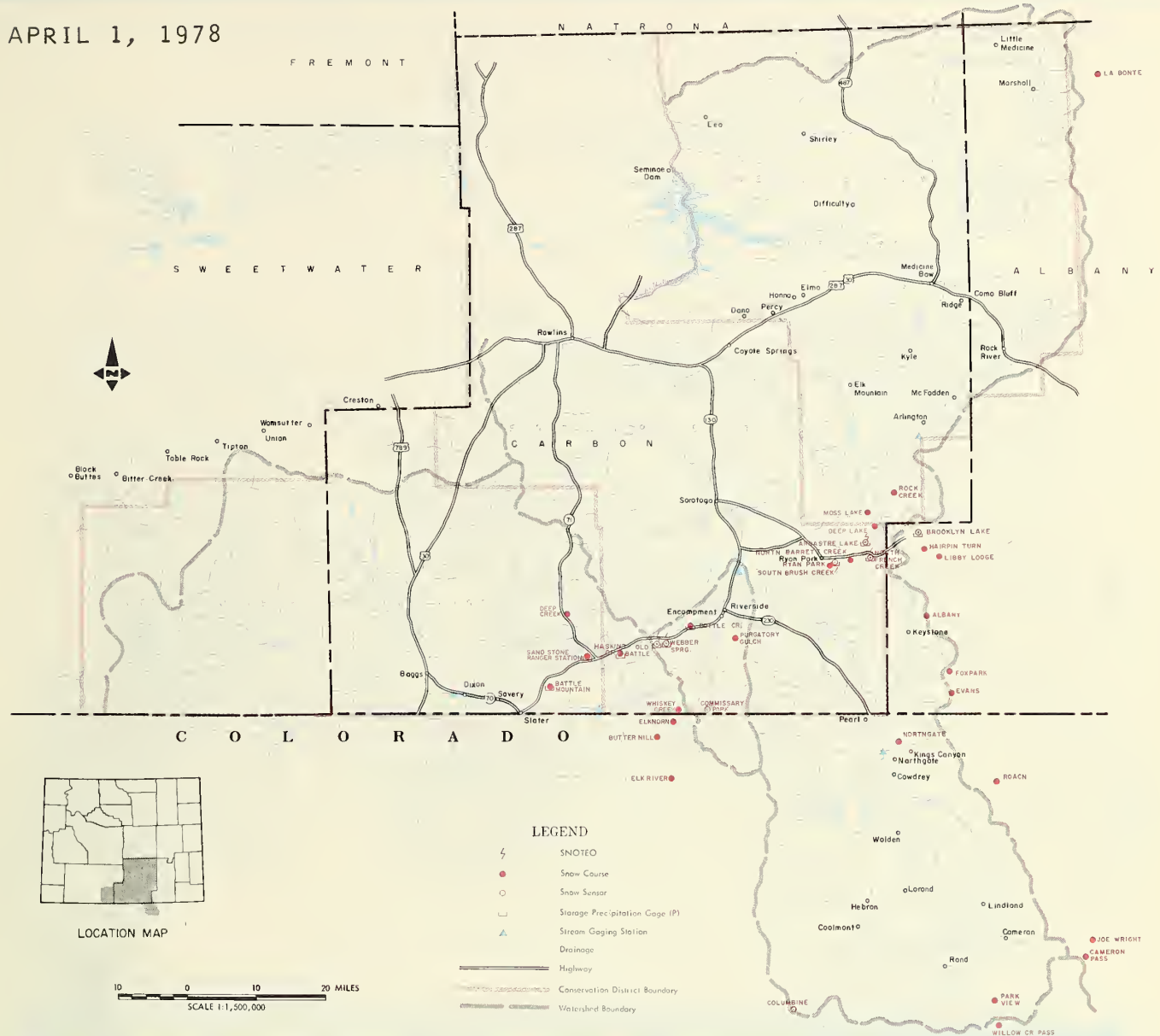
"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK

## FOR THE CONSERVATION DISTRICTS IN THE UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS IN WYOMING

APRIL 1, 1978



### YOUR WATER SUPPLY

FORECASTS OF SUMMER STREAMFLOWS CONTINUE TO BE WELL ABOVE AVERAGE IN THIS AREA WITH SOME INCREASES OVER LAST MONTH. VOLUMES FORECAST RANGE FROM 29 TO 56% ABOVE APRIL 1 AVERAGES. SNOWPACK IS 33 TO 43% ABOVE NORMAL. SEMINOE RESERVOIR STORAGE IS PRESENTLY BELOW NORMAL.

# UPPER NORTH PLATTE RIVER AND LITTLE SNAKE RIVER BASINS STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
North Platte River near Northgate	310	129	Apr-Sept	63	240
North Platte River near Sinclair	850	131	Apr-Sept	257	648
Encampment River near Encampment	184	130	Apr-Sept	55	141
Rock Creek near Arlington	76	138	Apr-Sept	32	55
Little Snake near Dixon	470	156	Apr-Sept	55	301
Little Snake near Slater, Colo.	220	152	Apr-Sept	-	145

\*\* Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper North Platte	14	202	133
Medicine Bow River and Rock Creek	4	202	131
Little Snake	2	264	143

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1010.5	249.2	488.1	293.1

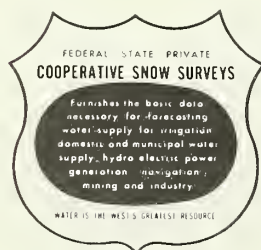
## SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST REC.	
		Snow Depth (in.)	Water Cont. (in.)	Water Content (inches) Last Yr.	Ave. †
Albany	3/27	52	20.0	7.4	14.9
Battle Mountain	3/28	39	15.6	5.5	-
Brooklyn Lake	3/27	78	32.0	10.8	23.0
Butter Hill	3/28	52	20.2	7.3	-
Cameron Pass	3/30	78	32.0	17.6	28.7
Deep Creek	3/28	53	21.2	8.0	-
Deep Lake	3/27	129	53.8	26.8	42.9
Elkhorn	3/28	92	37.9	13.2	-
Elk River	3/29	66	27.1	9.4	-
Evans	3/30	40	15.8	6.5	11.9
Foxpark	3/27	40	14.1	4.1	7.1
Hairpin Turn	3/29	61	24.8	8.1	17.7
Haskins Creek	3/28	113	46.2	14.8	-
LaBonte	3/25	25	7.7	5.5	5.0
Libby Lodge	3/29	43	16.3	7.7	11.6
Moss Lake	3/27	86	35.5	18.1	26.2
North Barrett Creek	3/27	72	26.4	18.1	21.6
North French Creek Pillow	3/27	-	33.7	18.1	23.4
Old Battle	3/28	109	46.8	18.6	33.8
Purgatory Gulch	3/28	38	12.0	6.0	11.3
Rock Creek	3/27	90	36.4	22.4	28.4
Ryan Park	3/27	41	15.9	10.1	11.4
Sandstone R.S.	3/28	55	23.6	7.2	-
Webber Spring	3/28	71	30.6	12.9	20.0
Whiskey Creek	3/28	96	39.8	16.0	-

+ 1958-1972 period

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# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE  
1401 LEXINGTON AVENUE, NEW YORK, N.Y. 10017

APRIL 1, 1978



## YOUR WATER SUPPLY

SNOWPACKS RANGE FROM 33% BELOW NORMAL IN THE POPO AGIE TO 28% ABOVE NORMAL IN THE UPPER WIND RIVER DRAINAGES. THIS DECREASE CAUSED BY EARLY WARM WEATHER IS ALSO REFLECTED IN THE STREAMFLOW FORECASTS WHICH ARE GENERALLY ABOUT 5% BELOW LAST MONTHS. LITTLE POPO AGIE FORECAST IS LOWEST AT 83% OF NORMAL. RESERVOIR STORAGE IS ABOVE THE USUAL APRIL 1 FIGURE.



- (1) Observed flow plus change in storage in Bull Lake and Pilot Butte Reservoirs and diversion to Wyoming Canal.
- (2) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.
- (3) Observed flow plus change in storage in Bull Lake

<sup>\*\*</sup> Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## (Comparison with Previous Years)

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

## SNOW

+ 1958-1972 period

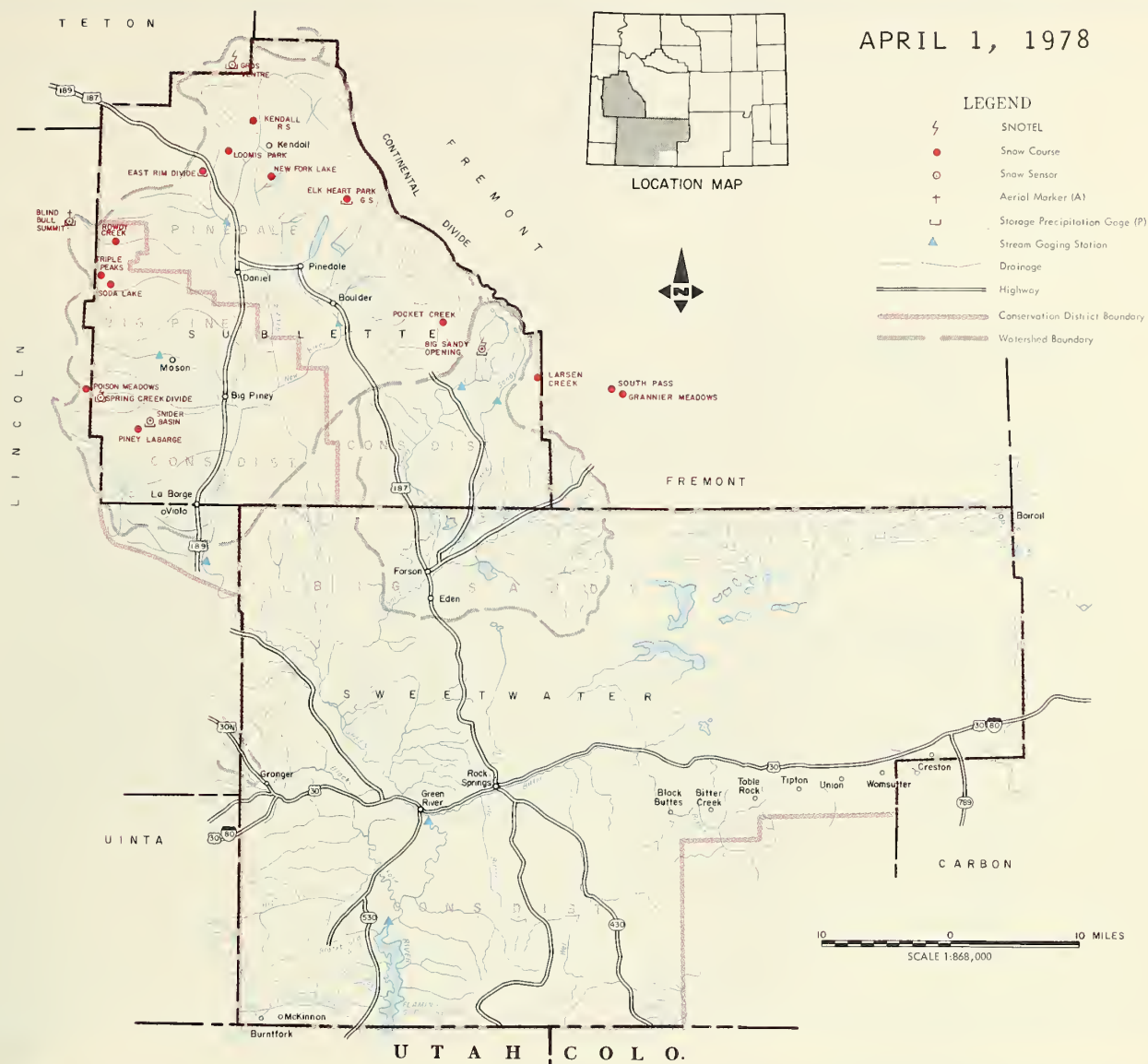
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*"The Conservation of Water begins with the Snow Survey"*



# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE UPPER GREEN RIVER BASIN IN WYOMING



## YOUR WATER SUPPLY

EXCELLENT WATER SUPPLIES ARE FORECAST FOR THE UPPER GREEN RIVER BASIN. WARM TEMPERATURES IN MARCH PRODUCED SOME EARLY SNOWMELT, BUT PRECIPITATION WAS ABOVE NORMAL AND STREAMFLOW VOLUMES ARE EXPECTED TO BE AS HIGH AS 35% ABOVE NORMAL.

# UPPER GREEN RIVER BASIN IN WYOMING

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
Green River at Warren Bridge	410	125	Apr-Sept	165	327
Green River near LaBarge	1260	135	Apr-Sept	288	931
Green River near Green River (1)	1340	135	Apr-Sept	279	989
Flaming Gorge Inflow	1390	118	Apr-July	1233	1174
LaBarge Creek at LaBarge Meadows	11.8	131	Apr-Sept	2.6	9.0
Big Sandy River near Big Sandy	60	105	Apr-Sept	26	57

(1) Observed flow plus change in storage in Fontenelle Reservoir.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Green, East side	8	312	136
Upper Green, West side	6	362	131
Big Sandy	2	265	132

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Eden	11.8	4.4	6.2	2.8*
Big Sandy	38.3	11.4	20.1	16.5
Fontenelle	344.8	205.4	182.3	--
Flaming Gorge	3749.0	1998.0	2522.9	1588.0

\*Less than 15 years in period of average

## SNOW

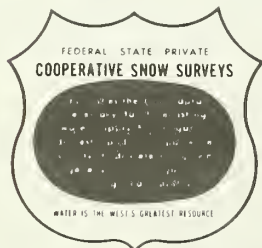
DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Last Yr.	Ave.†
Big Sandy Opening	3/28	55	19.1	6.0	15.0
Blind Bull Summit Aerial	3/27	106	34.6	9.3	28.2
East Rim Divide	3/28	51	19.8	6.2	13.4
Elkhart Park	3/28	56	20.8	6.9	15.3
Grannier Meadows	3/31	37	12.3	8.8	14.3
Gros Ventre Summit	3/30	42	13.0	5.7	12.8
Kendall R.S.	3/30	46	19.2	4.8	13.3
Larsen Creek	3/28	48	17.1	5.7	11.9
Loomis Park	3/28	66	27.6	6.7	18.8
New Fork Lake	3/30	48	17.4	5.4	12.3
Pocket Creek	3/28	55	17.5	7.8	12.8
Poison Meadows	3/31	95	38.8	11.6	30.9
Rowdy Creek	3/29	78	29.6	8.2	23.2
Snider Basin R.S.	3/31	52	22.4	6.2	17.4
Spring Creek Divide Pillow	3/31	80	27.8	7.2	--
South Pass	3/31	38	12.6	9.0	14.6
Triple Peaks	3/29	91	40.2	8.6	27.0

+ 1958-1972 period

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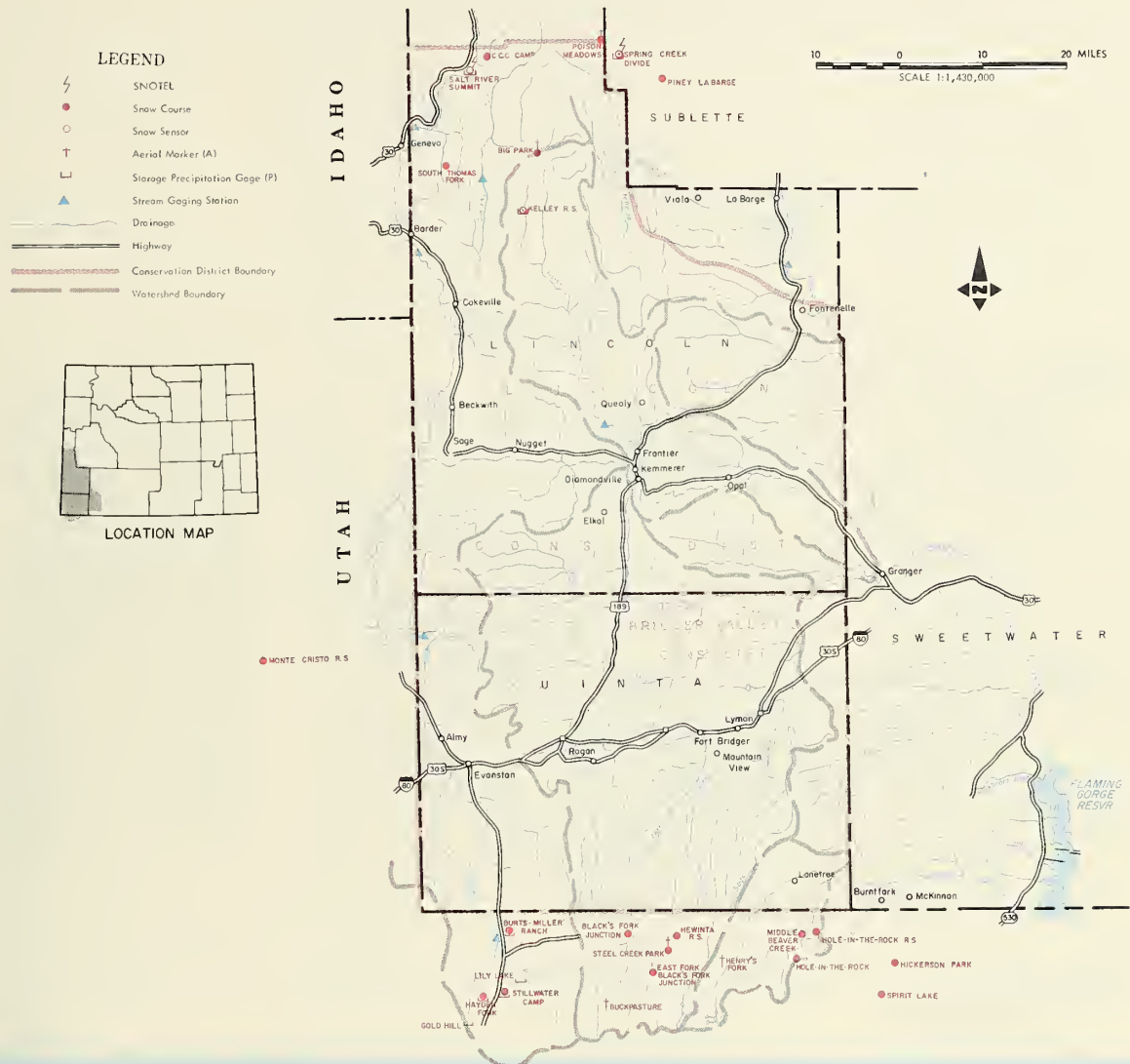


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"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS IN WYOMING

APRIL 1, 1978



## YOUR WATER SUPPLY

STREAMFLOW VOLUMES FOR THE SPRING AND SUMMER MONTHS ARE FORECAST SLIGHTLY BELOW AVERAGE FOR STREAMS ORIGINATING IN THE UINTA MOUNTAINS AND MUCH ABOVE AVERAGE FOR STREAMS ORIGINATING IN THE WYOMING AND SALT RIVER RANGES. THE MOUNTAIN SNOWPACK IS NEAR AVERAGE IN THE BLACKS FORK, BEAR AND HENRY'S FORK WATERSHEDS AND 25-50% ABOVE NORMAL IN THE SMITHS, THOMAS FORK AND GREEN RIVER WATERSHEDS. RESERVOIR STORAGE IS ABOVE NORMAL.



# LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
LaBarge Creek at LaBarge Meadows	11.8	131	Apr-Sept	2.6	9.0
Green River near Green River (1)	1340	135	Apr-Sept	279	989
Hams Fork below Pole Creek, near Frontier	92	133	Apr-Sept	-	69
Blacks Fork near Millburne	85	90	Apr-July	44	94
Flaming Gorge Inflow	1390	118	Apr-July	1233	1174
Smiths Fork near Border	155	134	Apr-Sept	27	116
Thomas Fork near State Line	44	138	Apr-Sept	3.8	32
Bear River at Utah-Wyoming State Line	105	94	Apr-July	41	112
Henry's Fork near Manila, Utah	40	89	Apr-Sept	3.6	45

(1) Observed flow plus change in storage in Fontenelle Reservoir.

\*\* Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Bear River	4	193	104
Smiths & Thomas Forks	4	326	127

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Fontenelle	344.8	205.4	182.3	-
Flaming Gorge	3749.0	1998.0	2522.9	1588.0
Viva Naughton	42.4	19.5	30.2	29.1 *

\*Average for period of record - furnished by Utah Power and Light.

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## SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC	
				Last Yr.	Ave †
Big Park	3/31	63	25.8	8.4	21.5
Black's Fork Junction	3/27	31	9.8	6.4	9.3
Burts-Miller Ranch	3/27	13	5.1	4.1	5.9
CCC Camp	3/30	37	16.2	7.6	12.5
East Fork Black's Fk. G.S.	3/27	39	11.0	6.4	9.4
Hayden Fork	3/27	47	17.2	9.9	16.2
Hewinta G.S.	3/27	35	9.3	6.7	9.9
Hickerson Park	3/27	25	6.2	4.8	6.3
Kelley R.S.	3/31	61	25.4	7.6	18.2
Poison Meadows	3/31	95	38.8	11.6	30.9
Salt River Summit	3/30	53	21.6	7.9	16.2
South Thomas Fork	4/04	51	22.2	5.2	18.8
Spirit Lake	3/27	37	10.8	7.9	13.0
Steel Creek Park	3/27	58	17.4	10.1	15.8
Stillwater Camp	3/27	34	11.8	6.9	11.3
Trial Lake	3/28	74	27.4	9.3	23.9

+ 1958-1972 period

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# BASIC DATA SUPPLEMENT 1

SNOW		THIS YEAR			PAST REC.		SNOW		THIS YEAR			PAST REC.	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)		DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
					Last Yr.	Ave†						Last Yr.	Ave†
Afton Ranger Station		3/30	0	0.0	0.0	1.0	Evans		3/30	40	15.8	6.5	11.9
Albany		3/27	52	20.0	7.4	14.9	Fisher Creek		3/31	99	43.7	22.8	38.5
Arizona		3/30	62	25.3	6.9	19.4	Fisher Creek Pillow		3/31	-	40.2	23.3	35.0
Arrastre Lake Pillow		- No Report	-	-	19.2	-	Five Springs Falls		3/31	27	8.7	11.4	7.9
Aster Creek		3/29	76	34.1	10.5	31.0	Four Mile Meadows		3/30	43	16.9	7.4	13.6
Bald Mountain*		3/29	73	25.8	28.4	24.0	Foxpark*		3/27	40	14.1	4.1	7.1
Bald Mountain Pillow		- No Report	-	-	-	-	Fred's Mountain		3/29	75	28.5	13.6	-
Base Camp		3/30	61	26.8	7.5	20.1	Geneva Pass Aerial		3/29	50	17.5	14.0	17.3
Battle Mountain		3/28	39	15.6	5.5	-	Geyser Creek		3/27	30	9.4	2.2	7.0
Bearlodge Divide		3/30	0	0.0	7.2	3.2	Glade Creek		3/29	67	29.5	11.1	22.2
Bear Trap Aerial		3/29	35	10.2	11.0	9.8	Grannier Meadows*		3/31	37	12.3	8.8	14.3
Big Goose R.S.*		3/29	25	5.7	12.0	8.3	Grassy Lake		3/29	98	43.1	18.1	35.0
Big Park *		3/31	63	25.8	8.4	21.5	Greys Boundary*		3/30	37	16.2	7.1	11.8
Big Sandy Opening*		3/28	55	19.1	6.0	15.0	Gros Ventre Summit*		3/30	42	13.0	5.7	12.8
Big Sandy Opening Pillow		3/28	-	14.9	9.9	-	Gros Ventre Summit Pillow		- No Report	-	-	7.5	-
Big Warm Springs		3/27	25	7.8	1.6	6.8	Grover Park Divide		3/30	36	15.0	7.3	12.8
Blackrock		3/30	68	27.7	12.2	22.3	Hairpin Turn*		3/29	61	24.8	8.1	17.7
Black's Fork Junction		3/27	31	9.8	6.4	9.3	Haskins Creek		3/28	113	46.2	14.8	-
Blind Bull Summit Aerial		3/27	106	34.6	9.3	28.2	Hayden Fork		3/27	47	17.2	9.9	16.2
Blind Bull Summit Pillow		- No Report	-	-	-	-	Hewinta Guard Station		3/27	35	9.3	6.7	9.9
Blue Ridge*		3/31	23	8.0	8.6	12.1	Hickerson Park		3/27	25	6.2	4.8	6.3
Bone Spring Divide*		3/29	59	19.5	20.5	19.1	Hobbs Park*		3/28	32	8.8	8.3	13.9
Boxelder		3/31	23	7.1	7.7	8.0	Hobbs Park Pillow		- No Report	-	-	-	-
Brooklyn Lake*		3/27	78	32.0	10.8	23.0	Huckleberry Divide*		3/30	62	27.9	9.6	21.6
Brooklyn Lake Pillow		- No Report	-	-	11.6	-	Indian Meadows		3/29	101	42.3	16.8	-
Bryan Flat*		3/29	29	11.0	3.2	9.1	Jackpine Creek		3/29	64	24.3	10.7	-
Buck Creek		3/31	25	7.6	11.8	-	Joe Wright		3/30	75	29.2	16.8	25.3
Burgess Ranger Station*		3/29	28	7.7	14.9	8.4	Kelley Ranger Station*		3/31	61	25.4	7.6	18.2
Burgess Ranger Sta. Pillow		- No Report	-	-	-	-	Kelley R.S. Pillow		- No Report	-	-	5.7	-
Burroughs Creek		3/27	51	20.6	4.1	13.4	Kendall Ranger Station*		3/30	46	19.2	4.8	13.3
Burroughs Creek Pillow		3/27	-	19.2	6.1	-	LaBonte		3/25	25	7.7	5.5	5.0
Burts-Miller Ranch		3/27	13	5.1	4.1	5.9	Lake Camp		4/01	31	11.8	4.8	9.9
Butter Hill*		3/28	52	20.2	7.3	-	LaPrele Pillow		3/22	40	11.3	10.7	-
Cameron Pass		3/30	78	32.0	17.6	28.7	Larsen Creek*		3/28	48	17.1	5.7	11.9
Canyon		3/31	47	18.2	7.2	16.5	Lewis Lake Divide		3/29	115	51.7	15.8	42.1
Canyon Pillow		- No Report	-	-	-	-	Lewis Lake Divide Pillow		3/29	121	47.0	-	-
Carter Mountain		3/30	13	3.8	4.2	4.9	Libby Lodge		3/29	43	16.3	7.7	11.6
Casper Mountain		3/31	35	10.7	14.5	15.0	Little Warm		3/27	59	22.8	7.7	16.4
Casper Mountain Pillow		3/31	-	8.8	13.1	-	Little Warm Pillow		- No Report	-	-	-	-
Castle Creek		3/28	23	6.1	1.6	-	Loomis Park*		3/28	66	27.6	6.7	18.8
CCC Camp*		3/30	37	16.2	7.6	12.5	Lost Lake		3/31	40	14.8	3.8	11.8
Chambers Lake		3/29	33	13.1	2.1	9.6	Lupine Creek		4/03	29	10.0	5.4	10.3
Cloud Peak Aerial		3/29	36	10.4	13.2	13.0	Mallo Pillow		- Delayed	-	-	13.5	-
Columbine Lodge		3/30	78	34.9	15.0	24.0	Marquette Creek		3/30	18	5.0	8.0	-
Cooke Station		3/31	65	27.6	12.4	20.5	McIntyre		3/28	36	12.6	5.6	10.8
Cottonwood Lake Aerial		3/27	62	26.0	8.7	16.8	Medicine Lodge Lakes*		3/29	48	14.1	7.2	12.4
Cottonwood Lake Pillow		- No Report	-	-	-	-	Middle Fork*		3/29	0	0.0	9.8	6.9
Coulter Creek		3/30	64	30.2	11.4	22.2	Middle Powder		- Delayed	-	-	19.0	12.6
Crevice Mountain		3/30	44	15.5	8.0	10.8	Middle Powder Pillow		- Delayed	-	-	18.2	-
Darby Canyon		3/29	68	25.8	13.1	-	Miles Creek		3/29	38	16.2	9.7	-
Deadman Hill		3/29	60	21.2	7.2	-	Monte Cristo		3/29	62	27.7	11.2	26.1
Deep Creek*		3/28	53	21.2	8.0	-	Moran		3/30	36	15.1	5.6	12.6
Deep Lake		3/27	129	53.8	26.8	42.9	Moran Bay		- No Report	-	-	9.5	21.9
Dinwoody *		3/28	39	11.2	5.0	12.1	Moss Lake*		3/27	86	35.5	18.1	26.2
Dinwoody Pillow		- No Report	-	-	-	-	Mount Tom Pillow		- Delayed	-	-	-	-
Dome Lake		3/29	32	8.8	13.6	10.6	Muddy Creek Guard Station*		3/29	18	3.6	4.6	4.1
Dome Lake Pillow		- No Report	-	-	-	-	New Fork Lake*		3/30	48	17.4	5.4	12.3
DuNoir		3/27	32	10.5	2.6	8.1	Norris Basin		4/03	29	11.9	6.1	11.0
East Entrance*		4/01	27	11.4	4.8	8.9	North Barrett Creek		3/27	72	26.4	18.1	21.6
East Fork Black's Fork GS		3/27	39	11.0	6.4	9.4	Northeast Entrance		4/01	30	11.8	5.4	9.5
East Rim Divide*		3/28	51	19.8	6.2	13.4	Northeast Entrance Pillow		4/01	-	11.6	5.3	9.3
Elbo Ranch		3/30	44	14.5	-	-	North French Creek Pillow		3/27	-	33.7	18.1	23.4
Elkhart Park G.S.*		3/28	56	20.8	6.9	15.3	Northgate		3/30	23	6.9	3.5	6.5
Elkhorn*		3/28	92	37.9	13.2	-	North Tongue*		3/29	40	12.2	17.8	14.2
Elk River		3/29	66	27.1	9.4	-	Old Battle*		3/29	09	46.8	18.6	33.8

# BASIC DATA SUPPLEMENT 1

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave†
Old Battle Pillow	3/28	118	31.4	-	-
Old Faithful	4/03	34	14.1	5.2	-
Onion Gulch*	3/29	35	9.8	9.0	9.6
Owl Creek	4/01	5	1.4	4.3	6.2
Parkers Peak Aerial	3/28	93	38.1	14.7	-
Park View	3/29	30	10.0	5.9	9.2
Phillips Bench	3/30	94	40.7	15.6	-
Phillips Bench Pillow	3/30	-	42.7	10.5	-
Pitchstone Plateau Aerial	3/28	169	72.7	19.0	63.0 a
Pocket Creek*	3/28	55	17.5	7.8	12.8
Poison Meadows	3/31	95	38.8	11.6	30.9
Pole Mountain	3/29	21	6.0	4.0	5.9
Powder River Pass*	3/29	44	12.7	10.2	13.9
Purgatory Gulch	3/28	38	12.0	6.0	11.3 a
Rabbit Ears	3/30	92	37.7	13.9	-
Ranger Creek	3/29	40	12.0	5.8	10.2
Reuter Canyon*	3/30	21	3.2	17.2	9.8
Roach	3/28	64	21.5	10.5	18.2
Rock Creek*	3/27	90	36.4	22.4	28.4
Rowdy Creek	3/29	78	29.6	8.2	23.2
Ryan Park*	3/27	41	15.9	10.1	11.4
Salt River Summit	3/30	53	21.6	7.9	16.2
Salt River Summit Pillow	- No Report	-	-	6.8	-
Sandstone Ranger Station*	3/28	55	23.6	7.2	-
Sawmill Divide	3/29	43	12.7	-	-
Sawmill Glade*	3/31	12	4.5	6.6	9.0
Shell Creek*	3/29	56	19.7	8.0	15.1
Shell Creek Pillow	- No Report	-	-	-	-
Sheridan Ranger Station*	3/27	28	8.9	2.4	7.6
Snake River Station	3/29	65	28.5	9.2	21.0
Snider Basin Ranger Sta.*	3/31	52	22.4	6.2	17.4
Snow King Mountain	3/29	44	17.7	5.3	15.6 a
Soldier Park*	3/29	28	7.1	5.7	6.5
Sour Dough*	3/29	27	6.7	5.9	7.2
South Brush Creek Pillow	3/29	45	17.0	-	-
South Pass	3/31	38	12.6	9.0	14.6
South Thomas Fork	4/04	51	22.2	5.2	18.8 a
Spirit Lake	3/27	37	10.8	7.9	13.0
Spring Creek Divide Pillow	3/31	80	27.8	7.2	-
State Line	3/25	38	15.0	7.0	14.9
Steamboat Point*	3/29	27	7.7	13.4	8.7
Steel Creek Park	3/27	58	17.4	10.1	15.8
Stillwater Camp	3/27	34	11.8	6.9	11.3
St. Lawrence Ranger Sta.*	3/28	16	3.8	4.9	7.0
St. Lawrence R.S. Pillow	3/28	-	7.5	-	-
Sucker Creek*	3/29	37	11.5	18.0	14.0
Sweetwater Mountain Pillow	- Delayed	-	-	11.2	-
Sylvan Lake Pillow	- No Report	-	-	12.8	-
Sylvan Pass*	4/01	37	15.2	6.7	13.4
T-Cross Ranch	3/28	29	10.3	0.8	5.8
Teton Pass W.S.	3/30	77	33.2	13.1	-
Thumb Divide	3/29	52	20.8	6.8	22.2
Timber Creek	4/01	0	0.0	2.8	3.5
Togwotee Pass	3/30	87	36.0	16.4	30.6
Togwotee Pass Pillow	3/30	-	46.6	12.8	-
Townsend Creek	3/31	15	3.4	6.8	-
Trial Lake	3/28	74	27.4	9.3	23.9
Triple Peaks*	3/29	91	40.2	8.6	27.0
Turpin Meadows	3/30	34	13.7	4.9	10.3
Twenty-One Mile	3/29	48	20.5	7.8	17.9
Two Ocean Plateau Aerial	3/28	84	36.1	9.1	-
Tyrell Ranger Station	3/29	34	9.6	7.2	9.2
Upper Spearfish	3/30	15	3.2	14.4	7.3
Warren Peak	3/30	20	2.9	15.2	11.6 a
Webber Spring*	3/28	71	30.6	12.9	20.0

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave†
Webber Spring Pillow	3/28	80	37.4	11.2	-
West Yellowstone	3/28	35	14.4	5.0	11.4
Whiskey Creek*	3/28	96	39.8	16.0	-
White Mill	3/31	83	34.2	15.8	27.7
White Mill Pillow	3/31	-	32.5	15.6	-
Willow Creek Pass	3/29	44	14.8	7.2	-
Wolverine	3/29	42	16.8	5.8	12.9 b
Wood Rock Guard Station*	3/29	36	10.2	13.6	11.2
Young's Ranch Aerial	3/27	74	28.1	6.7	19.4 a
Younts Peak Aerial	3/28	63	25.2	10.2	24.2 a

\* Snow course has been shortened or revised; prior records and averages adjusted.

a Less than 15 years in period of overage.

b 1958-1972 adjusted average.

c Partly estimated.

Aerial - Aerial observation; water content estimated.

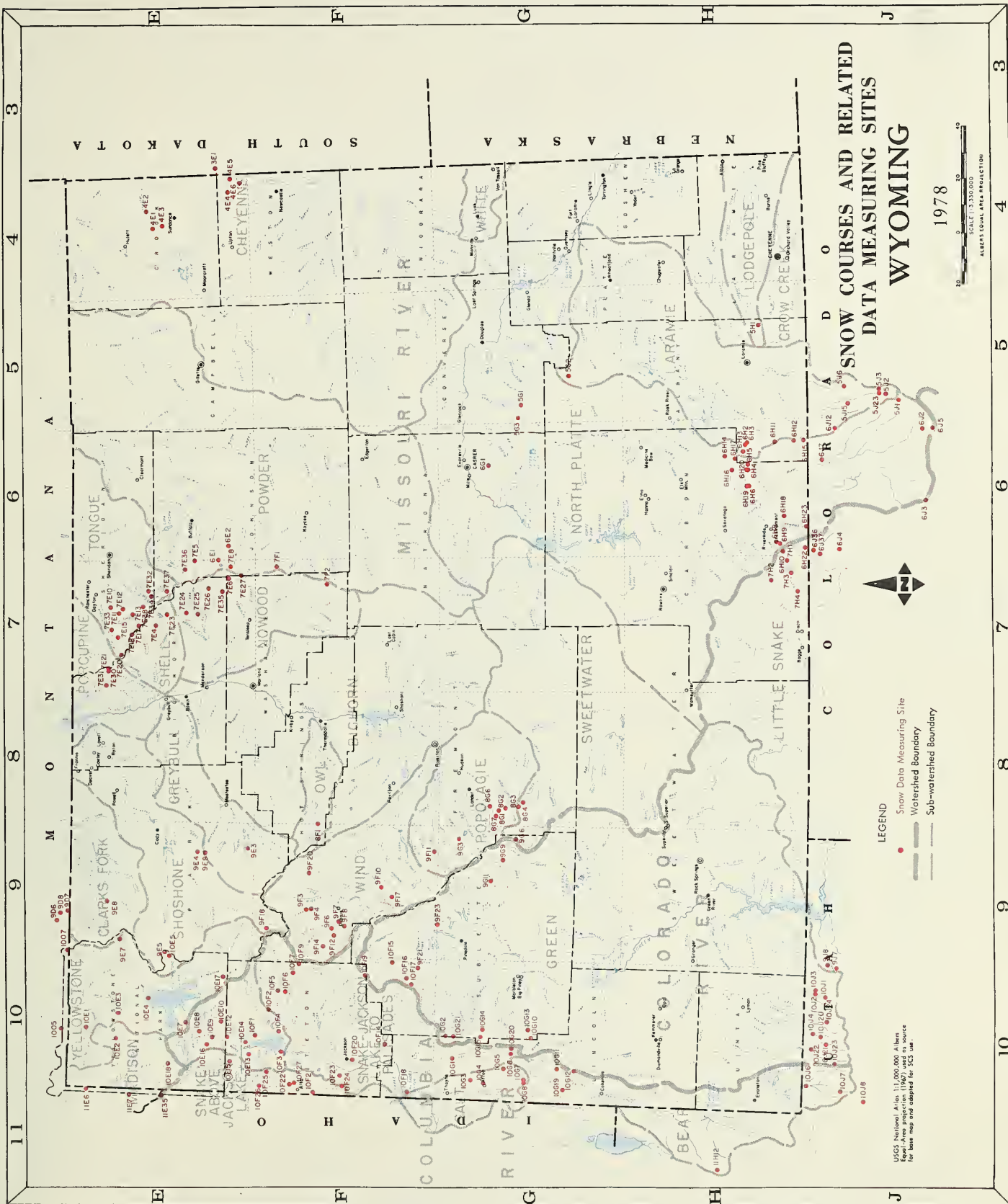
# BASIC DATA SUPPLEMENT 2

## PRECIPITATION (Inches)

PRECIPITATION (Inches)		CURRENT INFORMATION		PAST RECORD	
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	Date of Reading	Precipitation	Last Year	Average †
<u>LOWER YELLOWSTONE</u>					
Bald Mountain	9375	- No Report -	-	-	-
Burgess R.S.	7880	- No Report -	-	-	-
Burroughs Creek	8750	3/28	1.25	2.00	-
Carter Mountain	7950	3/30	1.75	3.80	-
Dinwoody	10000	3/28	5.88	-	-
Dome Lake	8850	- No Report -	-	-	-
Hobbs Park	10100	3/28	0.87	-	-
Little Warm	9425	- No Report -	-	-	-
Louis Lake	8500	3/31	1.25	-	2.17*
Middle Powder	7800	- No Report -	-	5.50	-
Onion Gulch	8780	- No Report -	-	3.40	-
Powder River Pass	9475	- No Report -	-	4.10	1.86*
Shell Creek	9600	- No Report -	-	-	-
St. Lawrence R.S.	8960	3/28	0.75	-	-
Sucker Creek	8880	- No Report -	-	-	-
Sylvan Lake	8420	- No Report -	-	4.62	-
Timber Creek	7950	4/01	0.60	2.20	-
Togwotee Pass	9600	3/30	2.05	4.20	4.02*
<u>NORTH PLATTE</u>					
Arrastre Lake	10275	- No Report -	-	-	-
Brooklyn Lake	10220	3/27	5.43	4.19	3.42*
Casper Mountain	7850	3/31	2.69	4.06	3.29*
North French Creek	10130	3/27	6.62	7.00	4.01*
Old Battle	9900	3/28	2.25	6.25	4.60*
Pole Mountain	8360	3/29	2.25	1.50	1.63*
Rock Creek	10100	3/27	6.72	5.40	-
South Brush Creek	8440	- No Report -	-	-	-
Webber Spring	9240	3/28	6.88	5.31	-
<u>GREEN RIVER</u>					
Battle Mountain	7440	- No Report -	-	1.50	-
Big Sandy Opening	9100	3/28	1.37	-	1.76*
East Rim Divide	7950	3/28	0.85	1.50	1.76*
Elkhart Park G.S.	9400	- No Report -	-	-	1.99*
Gros Ventre	8775	- No Report -	-	2.75	-
Haskins Creek	8800	- No Report -	-	5.63	-
Sandstone R.S.	8140	- No Report -	-	1.96	-
Snider Basin	8060	3/31	1.24	1.60	1.93*
Spring Creek Divide	9000	- No Report -	-	2.74	-
<u>SNAKE RIVER</u>					
Grassy Lake	7265	3/29	3.55	5.05	5.47*
Grover Park Divide	7000	3/30	3.00	3.95	-
Lewis Lake Divide	7860	3/29	3.65	5.20	6.17*
Moran (NWS)	6500	3/30	0.67	1.67	3.07
Phillips Bench	8200	3/30	4.75	3.75	-
Salt River Summit	7600	3/30	2.00	3.00	2.41*
Snake River Station (NWS)	6920	3/29	1.89	2.54	2.44*
<u>BEAR RIVER</u>					
Kelley R.S.	8180	3.31	2.45	3.00	2.60*
<u>BELLE FOURCHE</u>					
Bearlodge Divide	4680	- No Report -	-	3.04	1.35
Sweetwater Mountain	5860	- No Report -	-	2.25	-
Warren Peak	6520	3/30	0.75	1.75	0.94*
(NWS) National Weather Service gage. * Less than 15 years in period of average					







## INDEX TO WYOMING SNOW COURSES AND DATA SITES

[illegible]

# Agencies Cooperating in Wyoming Snow Surveys

## FEDERAL

U.S. Department of Agriculture  
Forest Service  
Soil Conservation Service

U.S. Department of Commerce  
NOAA, National Weather Service

U.S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service  
Indian Service

## STATE

State Engineer of Wyoming

University of Wyoming  
Department of Atmospheric Resources  
Department of Agricultural Engineering

## PRIVATE

Irrigation Districts  
Greybull Valley Irrigation District  
Wheatland Irrigation District

Conservation Districts  
Big Piney  
Big Sandy  
Bridger Valley  
Clearwater  
Cody  
Dubois-Crowheart  
Greybull-Shell  
Lake DeSmet  
LaPrele-Glenrock  
Laramie Rivers  
Lincoln  
Little Snake River  
Medicine Bow  
Pinedale  
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